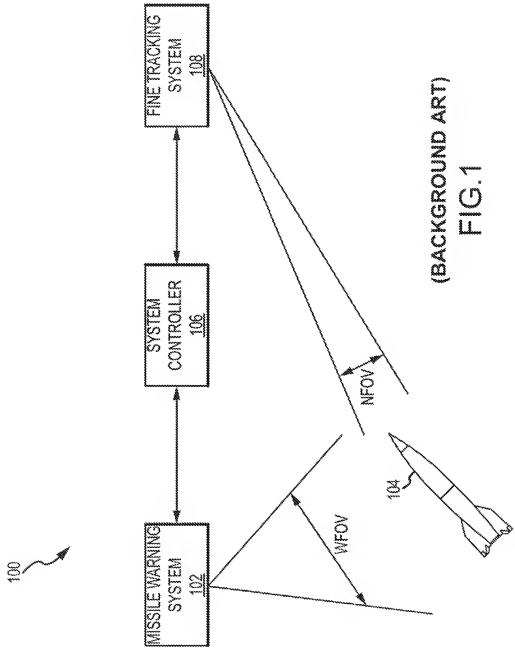

(BACKGROUND ART)
FIG.1

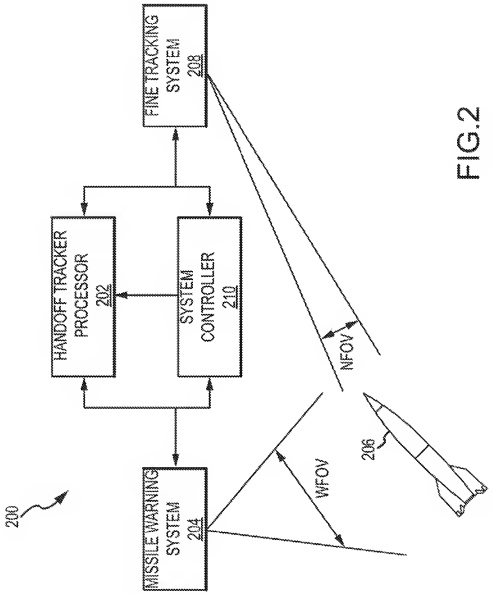
200
MISSILE WARNING SYSTEM 204
HANDOFF TRACKER PROCESSOR 202
SYSTEM CONTROLLER 210
FINE TRACKING SYSTEM 208
WFOV
NFOV
206

FIG.2

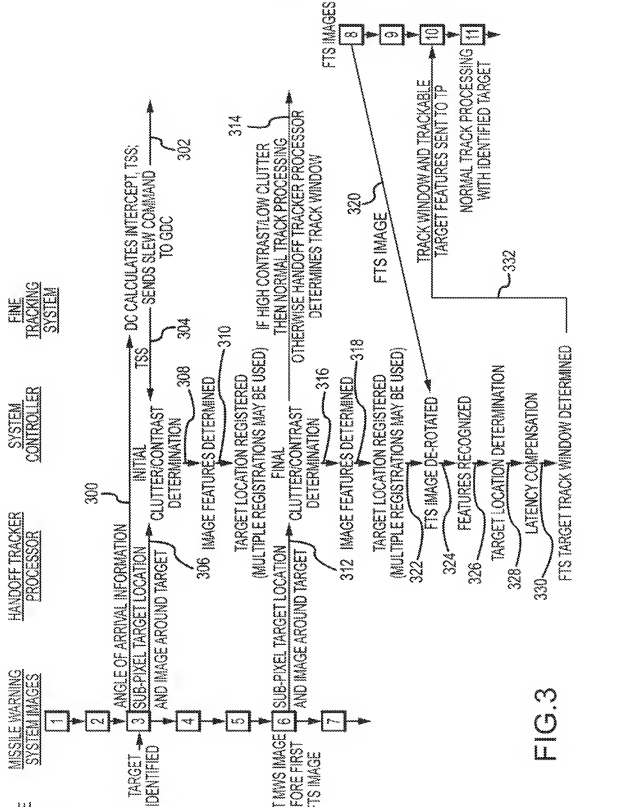
TIME
MISSILE WARNING SYSTEM IMAGES
HANDOFF TRACKER PROCESSOR
SYSTEM CONTROLLER
FINE TRACKING SYSTEM
300
1
2
3
4
5
6
7
8
9
10
11
TARGET IDENTIFIED
LAST MWS IMAGE BEFORE FIRST FTS IMAGE
ANGLE OF ARRIVAL INFORMATION
SUB-PIXEL TARGET LOCATION AND IMAGE AROUND TARGET
SUB-PIXEL TARGET LOCATION AND IMAGE AROUND TARGET
INITIAL
TSS
FINAL
FTS IMAGES
FTS IMAGE
CLUTTER/CONTRAST DETERMINATION
306
IMAGE FEATURES DETERMINED
308
TARGET LOCATION REGISTERED (MULTIPLE REGISTRATIONS MAY BE USED)
310
CLUTTER/CONTRAST DETERMINATION
312
IMAGE FEATURES DETERMINED
316
TARGET LOCATION REGISTERED (MULTIPLE REGISTRATIONS MAY BE USED)
318
FTS IMAGE DE-ROTATED
322
FEATURES RECOGNIZED
324
TARGET LOCATION DETERMINATION
326
LATENCY COMPENSATION
328
FTS TARGET TRACK WINDOW DETERMINED
330
DC CALCULATES INTERCEPT, TSS; SENDS SLEW COMMAND TO GDC
302
304
IF HIGH CONTRAST/LOW CLUTTER THEN NORMAL TRACK PROCESSING
314
OTHERWISE HANDOFF TRACKER PROCESSOR DETERMINES TRACK WINDOW
320
TRACK WINDOW AND TRACKABLE TARGET FEATURES SENT TO TP
332
NORMAL TRACK PROCESSING WITH IDENTIFIED TARGET

FIG.3

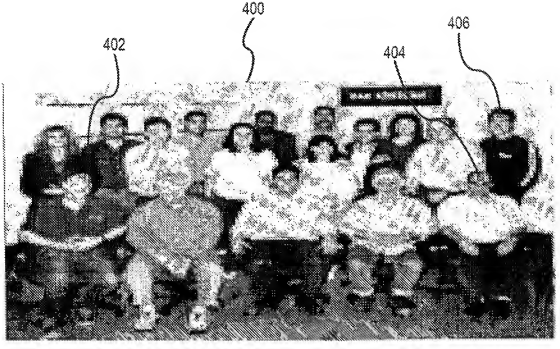

FIG.4

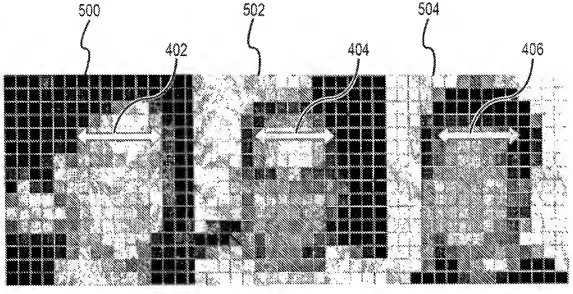

FIG.5

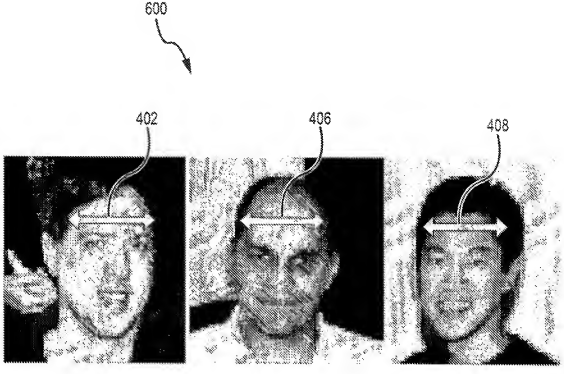

FIG.6